Kitchen Chemistry

Directions:

You will be using your knowledge of mixtures and physical and chemical properties to create a unique menu. You will describe each item on your menu based on its physical and chemical properties.

**Your menu must include at least:**

* + - 1. **2 drinks**
      2. **2 entrees (main meals)**
      3. **2 side dishes**
      4. **2 desserts**

Extra credit will be given for additional food or drink items you include on your menu.

(Menu items must be somewhat different from each other. For example: your drinks cannot be Coke, Sprite, and Pepsi.)

**For each item, you need to include:**

* + 1. **Is it a compound (chemically combined), mixture, solution, suspension?**

Hint: “cooking” counts as a chemical reaction, so a baked cake is a compound

* + 1. **Is it heterogeneous or homogeneous?**
    2. **At least one size dependent physical property.**
    3. **(length, weight, mass, volume, etc.)**
    4. **At least two size independent physical properties.**
    5. **(color, texture, smell, taste, temperature, state of matter etc.)**

Write the name of the food/drink item with a description below. (See examples on back)

Each food item will be rated on the following rubric:

|  | Exceeds (A) | Meets (B) | Below (C-) | Far Below (F) | Missing (0) |
| --- | --- | --- | --- | --- | --- |
| Drink 1 | Includes the four bullets above in detail or does more than the minimum. | Includes the four bullets above. | Includes at least three of the above. | Includes at least one of the above. | Does not include any of the above. |

The overall project will also be graded on appearance and spelling.

Example of a 4 (A):

Hot Chocolate

8 fluid ounces of a homogeneous solution of Hershey’s chocolate flavored powder and water served at 70 degrees Celsius.

Example of a 3 (B)

Hot Chocolate

A cup of a homogeneous solution that tastes like chocolate and is served hot.

Example of a 2 (C-)

Hot Chocolate

A cup of a solution that tastes like chocolate and is brown.

Example of a 1 (F)

Hot Chocolate

Brown water that tastes like chocolate.

Example of a 0

Hot Chocolate